

CLAIMS:

1. A mobile device comprising
 - a chargeable supply element (20) for supplying the mobile device (12) with electrical power,
 - means for determining a charge level of the supply element (20),
 - 5 - at least one function unit (16);
 - and a first authentication unit (22) for evaluating the charge level, wherein the authentication unit (22) monitors an authentication signal in the event of an increase and/or a sudden change in the charge level and if the authentication signal is absent or incorrect, it at least limits the operation of the function unit (16).
- 10 2. A mobile device as claimed in claim 1,
 - in which the authentication unit (22) has at least a first authentication memory element (18a) for storing an authentication criterion
 - wherein the authentication unit (22) checks the authentication signal by means
 - 15 of the authentication criterion and, in the event of agreement, enables the operation of the function unit (16).
3. A mobile device as claimed in any one of the preceding claims,
 - in which a value of the charge level of the supply element (20) can be stored in
 - 20 a charge-level memory element (40),
 - wherein the charge-level memory element (40) is preferably a non-volatile memory.
4. An anti-theft system comprising
 - 25 - a mobile device (12) as claimed in any one of the preceding claims
 - and a base station (14),
 - wherein the base station (14) has a second authentication unit (23),

- and the authentication units (22, 23) can be connected via a data path (30) in such a way that the authentication signals can be conveyed at least from the second authentication unit (23) to the first authentication unit (22).

5 5. A system as claimed in claim 4, in which

- an electrical supply path (34) is present from the base station (14) to the mobile part (12) for charging the supply element (20).

6. A system as claimed in claim 5, in which

10 - the data path (30) und the supply path (34) have at least partly common electrical conductors,

- wherein the supply path (34) preferably has at least one supply voltage and data are transmitted on the data path (30) by modulating the supply voltage.

15 7. A system as claimed in claim 4 or 5, in which

- the data path (30) is implemented in the form of acoustic and/or electromagnetic wireless transmitting and receiving units.

8. A system as claimed in any one of claims 4 to 7, in which

20 - there is a bi-directional data path (30) between the base station (14) and the mobile part (12).

9. A system as claimed in any one of claims 4 to 8, comprising

- a plurality of mobile devices (12)

25 - and a base station (14),

- wherein authentication criteria for each of the mobile devices (12) are stored in a memory element (18b) of the base station (14).

10. A method for protecting a mobile device against theft, in which

30 - the charge level of a chargeable supply element (20) is determined

- and, in the event of an increase and/or a sudden change in the charge level, the operation of a function unit (16) is at least restricted until an authentication signal is entered.